



PCT/10

## RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/10/031,204

TIME: 18:59:20

Input Set : A:\ippf0723usn.app.txt

Output Set: N:\CRF3\02062002\J031204.raw

ENTERED

4 <110> APPLICANT: INCYTE GENOMICS, INC.  
 5 LAL, Preeti  
 6 TANG, Y. Tom  
 7 YUE, Henry  
 8 BAUGHN, Mariah R.  
 9 LU, Dyung Aina M.  
 11 <120> TITLE OF INVENTION: ELECTRON TRANSFER PROTEINS  
 13 <130> FILE REFERENCE: PF-0723 PCT  
 15 <140> CURRENT APPLICATION NUMBER: US/10/031,204  
 16 <141> CURRENT FILING DATE: 2002-01-10  
 18 <150> PRIOR APPLICATION NUMBER: 60/143,816  
 19 <151> PRIOR FILING DATE: 1999-07-14  
 21 <160> NUMBER OF SEQ ID NOS: 10  
 22 <170> SOFTWARE: PERL Program  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 263  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Homo sapiens  
 29 <220> FEATURE:  
 30 <221> NAME/KEY: misc\_feature  
 31 <223> OTHER INFORMATION: Incyte ID No: 1319812CD1  
 33 <400> SEQUENCE: 1  
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 35 1 5 10 15  
 36 Leu Gly Ser Met Cys Ile Leu Phe Thr Ile Tyr Trp Met Gln Tyr  
 37 20 25 30  
 38 Trp Arg Gly Gly Phe Ala Trp Asn Gly Ser Ile Tyr Met Phe Asn  
 39 35 40 45  
 40 Trp His Pro Val Leu Met Val Ala Gly Met Val Val Phe Tyr Gly  
 41 50 55 60  
 42 Gly Ala Ser Leu Val Tyr Arg Leu Pro Gln Ser Trp Val Gly Pro  
 43 65 70 75  
 44 Lys Leu Pro Trp Lys Leu Leu His Ala Ala Leu His Leu Met Ala  
 45 80 85 90  
 46 Phe Val Leu Thr Val Val Gly Leu Val Ala Val Phe Thr Phe His  
 47 95 100 105  
 48 Asn His Gly Arg Thr Ala Asn Leu Tyr Ser Leu His Ser Trp Leu  
 49 110 115 120  
 50 Gly Ile Thr Thr Val Phe Leu Phe Ala Cys Gln Trp Phe Leu Gly  
 51 125 130 135  
 52 Phe Ala Val Phe Leu Leu Pro Trp Ala Ser Met Trp Leu Arg Ser  
 53 140 145 150  
 54 Leu Leu Lys Pro Ile His Val Phe Phe Gly Ala Ala Ile Leu Ser

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55          155          160          165
56 Leu Ser Ile Ala Ser Val Ile Ser Gly Ile Asn Glu Lys Leu Phe
57          170          175          180
58 Phe Ser Leu Lys Asn Thr Thr Arg Pro Tyr His Ser Leu Pro Ser
59          185          190          195
60 Glu Ala Val Phe Ala Asn Ser Thr Gly Met Leu Val Val Ala Phe
61          200          205          210
62 Gly Leu Leu Val Leu Tyr Ile Leu Leu Ala Ser Ser Trp Lys Arg
63          215          220          225
64 Pro Glu Pro Gly Ile Leu Thr Asp Arg Gln Leu Leu Leu Gln Leu
65          230          235          240
66 Arg Pro Gly Ser Arg Pro Phe Pro Val Thr Tyr Val Ser Val Thr
67          245          250          255
68 Gly Arg Gln Pro Tyr Lys Ser Trp
69          260
70 <210> SEQ ID NO: 2
71 <211> LENGTH: 141
72 <212> TYPE: PRT
73 <213> ORGANISM: Homo sapiens
74 <220> FEATURE:
75 <221> NAME/KEY: misc_feature
76 <223> OTHER INFORMATION: Incyte ID No: 2052013CD1
77 <400> SEQUENCE: 2
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81 1 5 10 15
82 Leu Ile Ala Gly His Glu Ala Gln Phe Gly Ala Glu Leu Leu Leu
83 20 25 30
84 Arg Leu Phe Thr Val Tyr Pro Ser Thr Lys Val Tyr Phe Pro His
85 35 40 45
86 Leu Ser Ala Cys Gln Asp Ala Thr Gln Leu Leu Ser His Gly Gln
87 50 55 60
88 Arg Met Leu Ala Ala Val Gly Ala Ala Val Gln His Val Asp Asn
89 65 70 75
90 Leu Arg Ala Ala Leu Ser Pro Leu Ala Asp Leu His Ala Leu Val
91 80 85 90
92 Leu Arg Val Asp Pro Ala Asn Phe Pro Leu Leu Ile Gln Cys Phe
93 95 100 105
94 His Val Val Leu Ala Ser His Leu Gln Asp Glu Phe Thr Val Gln
95 110 115 120
96 Met Gln Ala Ala Trp Asp Lys Phe Leu Thr Gly Val Ala Val Val
97 125 130 135
98 Leu Thr Glu Lys Tyr Arg
99 140
100 <210> SEQ ID NO: 3
101 <211> LENGTH: 376
102 <212> TYPE: PRT
103 <213> ORGANISM: Homo sapiens
104 <220> FEATURE:
105 <221> NAME/KEY: misc_feature

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107 &lt;223&gt; OTHER INFORMATION: Incyte ID No: 2693187CD1

109 &lt;400&gt; SEQUENCE: 3

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112	Glu	Glu	Asp	Cys	Pro	Glu	Leu	Val	Pro	Ile	Glu	Thr	Thr	Gln	Ser	
113				20						25					30	
114	Glu	Glu	Glu	Glu	Lys	Ser	Gly	Leu	Gly	Ala	Lys	Ile	Pro	Val	Thr	
115				35						40					45	
116	Ile	Ile	Thr	Gly	Tyr	Leu	Gly	Ala	Gly	Lys	Thr	Thr	Leu	Leu	Asn	
117				50						55					60	
118	Tyr	Ile	Leu	Thr	Glu	Gln	His	Ser	Lys	Arg	Val	Ala	Val	Ile	Leu	
119				65						70					75	
120	Asn	Glu	Ser	Gly	Glu	Gly	Ser	Ala	Leu	Glu	Lys	Ser	Leu	Ala	Val	
121				80						85					90	
122	Ser	Gln	Gly	Gly	Glu	Leu	Tyr	Glu	Glu	Trp	Leu	Glu	Leu	Arg	Asn	
123				95						100					105	
124	Gly	Cys	Leu	Cys	Cys	Ser	Val	Lys	Asp	Asn	Gly	Leu	Arg	Ala	Ile	
125				110						115					120	
126	Glu	Asn	Leu	Met	Gln	Lys	Lys	Gly	Lys	Phe	Asp	Asp	Ile	Leu	Leu	
127				125						130					135	
128	Glu	Thr	Thr	Gly	Leu	Ala	Asp	Pro	Gly	Ala	Val	Thr	Ser	Met	Phe	
129				140						145					150	
130	Trp	Val	Asp	Ala	Glu	Leu	Gly	Ser	Asp	Ile	Tyr	Leu	Asp	Gly	Ile	
131				155						160					165	
132	Ile	Thr	Ile	Val	Asp	Ser	Lys	Tyr	Gly	Leu	Lys	His	Leu	Thr	Glu	
133				170						175					180	
134	Glu	Lys	Pro	Asp	Gly	Leu	Ile	Asn	Glu	Ala	Thr	Arg	Gln	Val	Ala	
135				185						190					195	
136	Leu	Ala	Asp	Ala	Ile	Leu	Ile	Asn	Lys	Thr	Asp	Leu	Val	Pro	Glu	
137				200						205					210	
138	Glu	Asp	Val	Lys	Lys	Leu	Arg	Thr	Thr	Ile	Arg	Ser	Ile	Asn	Gly	
139				215						220					225	
140	Leu	Gly	Gln	Ile	Leu	Glu	Thr	Gln	Arg	Ser	Ser	Leu	Gln	Lys	Lys	
141				230						235					240	
142	Leu	Gln	His	Val	Pro	Gly	Thr	Gln	Pro	His	Leu	Asp	Gln	Ser	Ile	
143				245						250					255	
144	Val	Thr	Ile	Thr	Phe	Glu	Val	Pro	Gly	Asn	Ala	Lys	Glu	Glu	His	
145				260						265					270	
146	Leu	Asn	Met	Phe	Ile	Gln	Asn	Leu	Leu	Trp	Glu	Lys	Asn	Val	Arg	
147				275						280					285	
148	Asn	Lys	Asp	Asn	His	Cys	Met	Glu	Val	Ile	Arg	Leu	Lys	Gly	Leu	
149				290						295					300	
150	Val	Ser	Ile	Lys	Asp	Lys	Ser	Gln	Gln	Val	Ile	Val	Gln	Gly	Val	
151				305						310					315	
152	His	Glu	Leu	Tyr	Asp	Leu	Glu	Glu	Thr	Pro	Val	Ser	Trp	Lys	Asp	
153				320						325					330	
154	Asp	Thr	Glu	Arg	Thr	Asn	Arg	Leu	Val	Leu	Leu	Gly	Arg	Asn	Leu	
155				335						340					345	
156	Asp	Lys	Asp	Ile	Leu	Lys	Gln	Leu	Phe	Ile	Ala	Thr	Val	Thr	Glu	

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157          350          355          360
158 Thr Glu Lys Gln Trp Thr Thr Arg Phe Gln Glu Asp Gln Val Cys
159          365          370          375
160 Thr
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163 <211> LENGTH: 162
164 <212> TYPE: PRT
165 <213> ORGANISM: Homo sapiens
167 <220> FEATURE:
168 <221> NAME/KEY: misc_feature
169 <223> OTHER INFORMATION: Incyte ID No: 4315138CD1
171 <400> SEQUENCE: 4
172 Met Pro Arg Ala Asp Cys Ile Met Arg His Leu Pro Tyr Phe Cys
173   1          5          10          15
174 Arg Gly Gln Val Val Arg Gly Phe Gly Arg Gly Ser Lys Gln Leu
175          20          25          30
176 Gly Ile Pro Thr Ala Asn Phe Pro Glu Gln Val Val Asp Asn Leu
177          35          40          45
178 Pro Ala Asp Ile Ser Thr Gly Ile Tyr Tyr Gly Trp Ala Ser Val
179          50          55          60
180 Gly Ser Gly Asp Val His Lys Met Val Val Ser Ile Gly Trp Asn
181          65          70          75
182 Pro Tyr Tyr Lys Asn Thr Lys Lys Ser Met Glu Thr His Ile Met
183          80          85          90
184 His Thr Phe Lys Glu Asp Phe Tyr Gly Glu Ile Leu Asn Val Ala
185          95         100         105
186 Ile Val Gly Tyr Leu Arg Pro Glu Lys Asn Phe Asp Ser Leu Glu
187         110         115         120
188 Ser Leu Ile Ser Ala Ile Gln Gly Asp Ile Glu Glu Ala Lys Lys
189         125         130         135
190 Arg Leu Glu Leu Pro Glu His Leu Lys Ile Lys Glu Asp Asn Phe
191         140         145         150
192 Phe Gln Val Ser Lys Ser Lys Ile Met Asn Gly His
193         155         160
194 <210> SEQ ID NO: 5
195 <211> LENGTH: 265
196 <212> TYPE: PRT
197 <213> ORGANISM: Homo sapiens
199 <220> FEATURE:
200 <221> NAME/KEY: misc_feature
201 <223> OTHER INFORMATION: Incyte ID No: 5135362CD1
203 <400> SEQUENCE: 5
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206 Pro Gly Leu Gln Arg Pro Ala Ala Glu Met Pro Leu Arg Ala Arg
207          20          25          30
208 Ser Asp Gly Ala Gly Pro Leu Tyr Ser His His Leu Pro Thr Ser
209          35          40          45
210 Pro Leu Gln Lys Ala Leu Leu Ala Ala Gly Ser Ala Ala Met Ala

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211          50          55          60
212 Leu Tyr Asn Pro Tyr Arg His Asp Met Val Ala Val Leu Gly Glu
213          65          70          75
214 Thr Thr Gly His Arg Thr Leu Lys Val Leu Arg Asp Gln Met Arg
215          80          85          90
216 Arg Asp Pro Glu Gly Ala Gln Ile Leu Gln Glu Arg Pro Arg Ile
217          95         100         105
218 Ser Thr Ser Thr Leu Asp Leu Gly Lys Leu Gln Ser Leu Pro Glu
219         110         115         120
220 Gly Ser Leu Gly Arg Glu Tyr Leu Arg Phe Leu Asp Val Asn Arg
221         125         130         135
222 Val Ser Pro Asp Thr Arg Ala Pro Thr Arg Phe Val Asp Asp Glu
223         140         145         150
224 Glu Leu Ala Tyr Val Ile Gln Arg Tyr Arg Glu Val His Asp Met
225         155         160         165
226 Leu His Thr Leu Leu Gly Met Pro Thr Asn Ile Leu Gly Glu Ile
227         170         175         180
228 Val Val Lys Trp Phe Glu Ala Val Gln Thr Gly Leu Pro Met Cys
229         185         190         195
230 Ile Leu Gly Ala Phe Phe Gly Pro Ile Arg Leu Gly Ala Gln Ser
231         200         205         210
232 Leu Gln Val Leu Val Ser Glu Leu Ile Pro Trp Ala Val Gln Asn
233         215         220         225
234 Gly Arg Arg Ala Pro Cys Val Leu Asn Leu Tyr Tyr Glu Arg Arg
235         230         235         240
236 Trp Glu Gln Ser Leu Arg Ala Leu Arg Glu Glu Leu Gly Ile Thr
237         245         250         255
238 Ala Pro Pro Met His Val Gln Gly Leu Ala
239         260         265
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241 <211> LENGTH: 2414
242 <212> TYPE: DNA
243 <213> ORGANISM: Homo sapiens
244 <220> FEATURE:
245 <221> NAME/KEY: misc_feature
246 <223> OTHER INFORMATION: Incyte ID No: 1319812CB1
247 <400> SEQUENCE: 6
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252 tggagaagaa acgccgagga ggaacgggag ttaggggggtt agcagcttgg cgcgctggga 180
253 gcgggccacc cctggtctcc ggacttcact tcccaggagg cctcgcgcg cactggaagt 240
254 gctgcgagcc tataagaagg cgaggcggca cccgccgctc tgctctgggg cggcattgcc 300
255 agccggctgt aggcattcag ggcagtgtct tctgcatctc ctaggaaact cgggagcggc 360
256 agctccggcg cctggtagcg agaggcgggt tccggagatc ccggcctcac ttcgtccac 420
257 tgtggttagg ggtgagtcct gcaaagtta agtgatttgc tcaagggtgc catttcgcag 480
258 gaattggagc ccaggccagt tctctgagcc tatcattagg gctaaaggag tgcgtgatca 540
259 gaatggtgtc tggacggttc tacttgtcct gcctgctgct ggggtccctg ggctctatgt 600
260 gcacacctct cactatctac tggatgcagt actggcgtgg tggctttgcc tggaatggca 660
261 gcactctacat gttcaactgg caccagtgcc ttatggttgc tggcatggtg gtattctatg 720

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VERIFICATION SUMMARY

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Input Set : A:\ippf0723usn.app.txt

Output Set: N:\CRF3\02062002\J031204.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application Number

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date